

CLAIM 17(NEW). The method according to claim 16, wherein said step (e) comprises delivering the destroyed cellular units of said step (b) to one of: an aerobic, anoxic, facultative, or anaerobic bioreactor.

CLAIM 18(NEW). The method according to claim 16, wherein said secondary treatment apparatus further comprises a sludge dewatering apparatus; said step (c) further comprising;

(f) delivering the destroyed cellular units of said step (b) to another bioreactor downstream from said at least one bioreactor and upstream of said sludge dewatering apparatus.

CLAIM 19(NEW). The method according to claim 18, wherein said step (c) comprises delivering the destroyed cellular units of said step (b) to one of: an aerobic, anoxic, facultative, or anaerobic bioreactor.

CLAIM 20(NEW). The method according to claim 14, further comprising, before said step (a):

(f) transporting wastewater from a primary treatment apparatus to a secondary treatment apparatus;

said secondary treatment apparatus comprising a sludge dewatering apparatus; said step (c) comprising delivering the destroyed cellular units of said step (b) to a bioreactor upstream of said sludge dewatering apparatus.

CLAIM 21(NEW). A method of treating wastewater, such as raw sewage, effluent, slurry, containing biologically-active cellular units, comprising:

- (a) delivering said wastewater to an electroporation apparatus;
- (b) electroporating said wastewater in said electroporation apparatus by exposing said wastewater to a pulsed electric field to disrupt said cellular units and to release matter; and
- (c) delivering said matter to at least one one bioreactor for reaction therewith;
 said step (c) comprising supplying said matter as food for said at least one bioreactor.

CLAIM 22(NEW). The method according to claim 21, wherein said step (c) comprises delivering said matter to at least one of: an aerobic, anoxic, facultative, or anaerobic bioreactor.

CLAIM 23(NEW). A method of treating wastewater, such as raw sewage, effluent, slurry, containing biologically-active cellular units, comprising:

- (a) delivering said wastewater to an electroporation apparatus;
- (b) electroporating said wastewater in said electroporation apparatus by exposing said wastewater to a pulsed electric field to disrupt said cellular units and to release organic matter; and
- (c) supplying said released organic matter as food to a means for biologically digesting organic matter.

CLAIM 24(NEW). The method according to claim 23, wherein said step (c) comprises delivering the released organic matter to at least one of: an aerobic, anoxic, facultative, or anaerobic bioreactor.

CLAIM 25(NEW). The method according to claim 23, further comprising, before said step (a):

- (d) transporting wastewater from a primary treatment apparatus to at least one bioreactor of a secondary treatment apparatus;
- (e) said step (c) comprising recycling the released matter back to said at least one bioreactor of said step (d).

CLAIM 26(NEW). The method according to claim 25, wherein said step (e) comprises delivering the disrupted cellular units of said step (b) to one of: an aerobic, anoxic, facultative, or anaerobic bioreactor.